

Plotted: 7/10/2025 3:00:43 PM Z:\2017-1976\06 - TECHNICAL (SURVEY, REPORTS, CALC, CADD)\CADD\SHEETFILES\001 - NOTES AND LEGEND.DWG - jrelyea

GENERAL NOTES:

1. CONTRACTOR IS PROHIBITED FROM USING SCHOOL FACILITIES WHILE ON-SITE.

2. THE CONTRACTOR SHALL COMPLETE ALL WORK SHOWN ON THESE PLANS AND IN THE SPECIFICATIONS.

3. THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. EXCEPTIONS ARE SPECIFICALLY NOTED ON EACH DRAWING.

4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NYC BUILDING CODE & OTHER APPLICABLE LOCAL CODES AND REGULATIONS OF OTHER AGENCIES HAVING JURISDICTION OVER THE WORK OF THIS CONTRACT.

5. THE CONTRACTOR SHALL COORDINATE OF ALL WORK UNDER THIS CONTRACT TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK.

6. SITE SAFETY PLANS SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW BY THE ENGINEER AND OWNER PRIOR TO APPLYING FOR CONSTRUCTION PERMITS.

7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS/REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL APPLICABLE OSHA REGULATIONS ARE COMPLIED WITH DURING THE EXECUTION OF THIS CONTRACT.

8. THE CONTRACTOR SHALL PROVIDE ALL GUARDS, RAILS, BARRICADES, FENCES, SIDEWALK SHEDS, CATCH PLATFORMS, DECKING, NIGHT LIGHTING, ETC., AS REQUIRED BY THE LATEST NYC BUILDING CODE TO PROVIDE ADEQUATE PROTECTION OF BOTH THE WORKERS AND THE PUBLIC.

9. THE CONTRACTOR SHALL PROVIDE BARRICADES AROUND WORK AREAS AS REQUIRED TO PREVENT ANY UNAUTHORIZED PERSONS FROM ENTERING THEREIN.

10. THE CONTRACTOR SHALL PROVIDE PROTECTION AT SIDEWALK AND CURBS AROUND THE PREMISES SO THAT THEY MAY BE SAFELY USED BY THE PUBLIC AT ALL TIMES, AS REQUIRED BY THE LATEST NYC BUILDING CODE.

11. THE CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED ACCESS FROM ALL ADJACENT SPACES TO FIRE STAIRS LEADING OUTSIDE THE BUILDINGS, AT ALL TIMES.

12. DURING CONSTRUCTION, TEMPORARY BAFFLES TO SEAL OPENINGS TO PREVENT DUST AND DIRT FROM FILTERING INTO OCCUPIED AREAS ARE TO BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHOULD USE VACUUM EQUIPMENT TO CLEAN UP AS REQUIRED.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS AND MEANS OF CONSTRUCTION AND SHALL PROVIDE ALL SAFEGUARDS TO ENSURE SAFETY TO THE PUBLIC FOR THE DURATION OF THIS WORK.

14. THE CONTRACTOR SHALL KEEP THE WORK SITE FREE FROM DEBRIS AND ACCUMULATED REFUSE. THE SITE SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.

15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REROUTE EXISTING UTILITIES/SERVICES AND/OR PROVIDE TEMPORARY SERVICES SO AS NOT TO DISRUPT ANY SERVICE TO THE BUILDING IF ANY UTILITY OR SERVICES ARE INTERRUPTED DURING THE EXECUTION OF THE WORK.

16. THE CONTRACTOR SHALL AT THEIR OPTION, SUPPORT IN PLACE OR DISCONNECT AND/OR REMOVE ANY EXISTING PLUMBING, ELECTRICAL FIXTURES, WIRE, CONDUITS, OR OTHER WORK, WHICH MIGHT INTERFERE WITH THE WORK OF THIS CONTRACT. AFTER THE WORK IS COMPLETED, THE DISCONNECTED OR REMOVED ITEMS SHALL BE REINSTALLED BY THE CONTRACTOR AT THE SAME LOCATION OR AT DIFFERENT LOCATION AS DIRECTED. THE CONTRACTOR SHALL FURNISH ALL NECESSARY NEW MATERIALS/HARDWARE FOR COMPLETION OF WORK. COST TO PERFORM THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS ITEMS. NO SEPARATE PAYMENT WILL BE MADE.

17. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW MATERIALS AT NO ADDITIONAL COST TO THE CLIENT FOR FOLLOWING CONDITIONS:

a. ANY EXISTING WORK THAT HAS BEEN REMOVED OR DAMAGED IN ORDER TO PERFORM THE CONTRACT WORK.

b. TO FURNISH THE WORK OF THIS CONTRACT IN A WORKMANLIKE MANNER. THE DEFINITION OF WORKMANLIKE IS THE DESIRED AND ACCEPTABLE STANDARD OF QUALITY WORKED MATERIALS.

18. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.

19. ANY EXISTING LANDSCAPING WHICH IS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND. DISTURBED OR DAMAGED GRASS AREAS SHALL BE REPLACED WITH SOD, OR SEEDING OR AS DIRECTED BY THE ENGINEER.

20. DETAILS NOT SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER AND ACCEPTABLE CONSTRUCTION INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ENGINEER OR CLIENT SHALL BE INCLUDED IN THE WORK THE SAME WAY AS IF HEREIN SPECIFIED OR INDICATED.

21. THE CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS, QUANTITIES AND CONDITIONS OF THE SITE AND/OR BUILDING BEFORE DEMOLITION AND CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

22. THE CONTRACTOR SHALL, BE RESPONSIBLE FOR PERMIT APPLICATION FILINGS, SECURING AND PAYING FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSES, AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND MIS-ALIGNMENT ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.

24. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON THESE DOCUMENTS, IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS FOR SUCH ITEMS. ALL OTHER PRODUCTS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE THEY ARE DEEMED EQUAL.

25. ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DRAWINGS.

26. DRAWINGS ARE NOT TO BE SCALED: USE DIMENSIONS ONLY. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED IN THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE ENGINEER. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

27. THE CONTRACTOR SHALL OBTAIN EQUIPMENT USE PERMITS REQUIRED IN ACCORDANCE WITH THE NYC BUILDING CODE.

SITE SAFETY AND PROTECTION NOTES

28. SUBMIT TO THE ENGINEER FOR REVIEW A SITE SAFETY PLAN(S) PREPARED AND SIGNED BY A NEW YORK-LICENSED SITE SAFETY ENGINEER. THE PLAN(S) SHALL BE COMPLETE, REFLECTING THE ENTIRE SITE AND SHALL SHOW ANY PHASED PROTECTION. THE SITE SAFETY PLAN(S) SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO:

SIDEWALK BRIDGES, FENCES, EGRESS, SCAFFOLDING, FIRE PROTECTION ETC.

THEY SHOULD ADDRESS ANY POTENTIAL INTERACTION BETWEEN THE BUILDING OCCUPANTS AND GENERAL PUBLIC AND EXPOSURE TO THE CONSTRUCTION PROCESS.

29. NO WORK SHALL PROCEED UNTIL SAFETY PLANS ARE APPROVED BY ENGINEER.

30. OCCUPANT SAFETY NOTES:

a. ANY UNAVOIDABLE OPERATION INTERFERENCES SHALL BE COORDINATED WITH BOTH THE ENGINEER AND THE HEAD OF FACILITY OPERATIONS.

b. CONTRACTOR SHALL PROVIDE SAFETY DATA SHEETS (SDS) TO THE ENGINEER PRIOR TO START OF WORK.

33. MEANS OF EGRESS: ALL EXISTING MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING SHALL BE LEFT UNOBSTRUCTED.

FIRE SAFETY

34. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BUILDING MATERIALS STORED AT CONSTRUCTION AREA AND/OR IN ANY AREA OF THE BUILDING.

35. ALL MATERIALS SHALL BE STORED IN LOCATIONS DESIGNATED BY THE ENGINEER

36. ALL FLAMMABLE MATERIALS SHALL BE KEPT TIGHTLY SEALED IN THEIR RESPECTIVE MANUFACTURERS' CONTAINERS. SUCH MATERIALS SHALL BE KEPT AWAY FROM HEAT.

37. ALL FLAMMABLE AND COMBUSTIBLE MATERIALS SHALL BE STORED IN OUT-SIDE SECURE STORAGE CONTAINERS. NO FLAMMABLE/COMBUSTIBLE MATERIALS SHALL BE STORED OVER NIGHT/WEEKENDS WITHIN THE SCHOOL FACILITY.

DUST CONTROL

38. DEBRIS, DIRT AND DUST SHALL BE CLEANED UP AND CLEARED FROM BUILDING AREA ON A DAILY BASIS TO AVOID EXCESSIVE ACCUMULATION.

NOISE AFTER HOURS

39. THE CONTRACTOR TO OBTAIN THE WRITTEN CONSENT OF ALL PARTIES AFFECTED BY HIS WORKING DURING OTHER THAN REGULAR HOURS.

40. CONTRACTOR SHALL OBTAIN AFTER-HOURS WORK PERMIT IF WORKING AFTER-HOURS.

DISPOSAL OF MATERIAL

45. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL WASTE/DEMOLITION MATERIAL OFF-SITE.

46. EXCESS FILL, IMPACTED MATERIAL THAT IS EXCAVATED AND REQUIRES OFF-SITE DISPOSAL MUST BE PROPERLY CHARACTERIZED (SOIL ANALYSIS) AND DISPOSED TO AN APPROVED FACILITY. THIS INCLUDES HISTORIC OFF-SITE IMPACTED MATERIAL EXCAVATED DURING UTILITY CONNECTS. THE ENVIRONMENTAL ENGINEER MUST REVIEW AND APPROVE THE ANALYTICAL RESULTS AND DISPOSAL APPLICATION PRIOR TO THE EXPORTATION OF THE IMPACTED MATERIAL. THE ENVIRONMENTAL ENGINEER MUST BE PROVIDED WITH THE FULLY SIGNED MANIFESTS TO ENSURE THAT THE MATERIAL THAT WAS REMOVED FROM THE SITE WAS PROPERLY DELIVERED TO THE APPROVED DISPOSAL FACILITY.

47. THE FINAL DISPOSITION OF ANY CERTIFIED CLEAN FILL EXCAVATED AS PART OF THE SCHOOL CONSTRUCTION MUST BE APPROVED BY THE ENVIRONMENTAL ENGINEER. THE ENVIRONMENTAL ENGINEER MUST BE NOTIFIED PRIOR TO THESE ACTIVITIES TO ENSURE THAT NO IMPACTED FILL IS CO-MINGLED WITH CERTIFIED CLEAN FILL. IN ADDITION, NO CLEAN MATERIAL, INCLUDING TOPSOIL MAY BE MIXED WITH THE HISTORIC FILL OR OTHER CONTAMINATED MATERIAL FOR USE ON SITE AS CLEAN MATERIAL.

CONDITION PHOTOGRAPHS

49. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF EXISTING CONDITION IN AND AROUND THE PROJECT LIMITS. THESE PHOTOGRAPHS SHALL BE GIVEN TO QUEENS COLLEGE OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL RE-PHOTOGRAPH ALL THE OF THE SAME LOCATIONS AFTER FINAL CONSTRUCTION CLEAN UP. THESE PHOTOS SHALL ALSO BE GIVEN TO QUEENS COLLEGE OR ITS REPRESENTATIVE. THE PHOTOS SHALL BE TAKEN TO FILL THE FRAME OF THE PHOTOGRAPH.

GENERAL CIVIL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH CURRENT OSHA STANDARDS AND LOCAL CODE REQUIREMENTS.

2. INLETS AND MANHOLES TO BE DEMOLISHED AND/OR REMOVED INCLUDE THE COMPLETE REMOVAL OF THE STRUCTURE TO 2 FEET BELOW THE BOTTOM OF THE STRUCTURE FROM FINISHED GRADE AND, SHALL BE FILLED WITH CLEAN FILL. PIPES TO BE REMOVED OR ABANDONED SHALL BE TOTALLY REMOVED OR FILLED WITH FLOWABLE CONCRETE AND CAPPED. SOIL COMPACTION UP TO THE SUBGRADE SHALL BE IN ACCORDANCE WITH AASHTO T-180 (ASTM D 1557).

3. ALL PAVEMENT CALLED FOR REMOVAL SHALL BE SAW CUT.

4. EXISTING SIDEWALK AND CURB REMOVAL (ALL TYPES) SHALL OCCUR CLEANLY ALONG EXISTING JOINTS. ONLY COMPLETE SIDEWALK PANELS AND CURB SEGMENTS SHALL REMAIN.

5. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH (f'c) OF 4,000PSI OR AS SPECIFIED ON THE PLANS.

6. LOCATIONS ARE TO THE CENTER OF THE PIPE BENDS, TO THE CENTER OF MANHOLES AND CORNERS OF INLETS AND OTHER STRUCTURAL FEATURES UNLESS OTHERWISE INDICATED ON PLANS.

7. GROUT SHALL BE SIKKA TYPE NON-SHRINK, NON-METALLIC OR EQUAL.

8. ASPHALT CONCRETE PAVING SHALL CONFORM TO THE FOLLOWING:

a. HOT MIX ASPHALT SHALL BE FROM APPROVED LOCAL SOURCES.

b. THE AVERAGE IN PLACE DENSITY OF THE HOT MIX ASPHALT SHALL BE 98% OF BULK SPECIFIC GRAVITY WHEN TESTED WITH NUCLEAR GAUGE. MAXIMUM SPECIFIC GRAVITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D2041.

c. DENSE GRADED AGGREGATE BASE COURSE SHALL CONFORM TO THE NY CITY STANDARD FOR ABC.

d. ASPHALTIC CEMENT SHALL MEET REQUIREMENTS FOR PG 64-22, IN ACCORDANCE WITH AASHTO M320.

9. LANDSCAPE WORK SHALL BE IN ACCORDANCE WITH PLANS AND DETAILS.

10. ALL EXISTING UTILITIES SHOWN WERE LOCATED BASED ON COLLEGE PROVIDED, WHICH ARE NOT TO BE MISUNDERSTOOD AS BEING COMPLETE RECORD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY VERIFYING THE LOCATION OF ALL UTILITIES. THE FOLLOWING SHALL BE PERFORMED:

a. VERIFY THE LOCATION AND DEPTH OF EXISTING UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION.

b. EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING POWER, COMMUNICATIONS, WATER, OR GAS LINES TO PREVENT DAMAGE TO THESE LINES.

c. ALL EXPOSED EXISTING UTILITIES SHALL BE SUPPORTED, AS APPROVED BY THE ENGINEER.

d. IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING UTILITIES IN A MANNER APPROVED BY THE ENGINEER AT NO ADDITIONAL COST.

MAINTENANCE AND PROTECTION OF TRAFFIC:

1. THE CONTRACTOR SHALL, ON A DAILY BASIS, CLOSE THE ROADWAY DURING DAYTIME CONSTRUCTION ACTIVITIES. AT THE END OF THE DAY, ON AN AS NEEDED BASIS, PLACE A PLATE OVER OPEN UTILITY TRENCHES (IN ROADWAY ONLY) AND OPEN ROAD TO TRAFFIC. UPON COMPLETION OF UTILITY WORK IN ROADWAY, THE CONTRACTOR SHALL PAVE AND OPEN ROAD TO TRAFFIC. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES.

2. PEDESTRIANS AND VEHICLES SHALL BE REDIRECTED AROUND CONSTRUCTION AREAS. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SAFETY EQUIPMENT, BARRIERS, FENCING ETC. AND SIGNING AS REQUIRED.

3. THE CONTRACTOR SHALL SUBMIT A MPT PLAN FOR EACH AREA FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.



CONSULTANTS



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**KSE**

**KS ENGINEERS, P.C.**

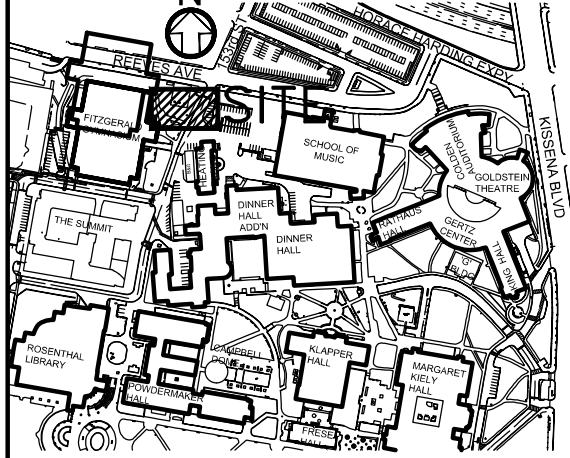
2 Riverfront Plaza, 3d Floor Newark, N.J. 07102  
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LOCATION: QUEENS COLLEGE  
HEATING PLANT  
64-56 KISSENA BOULEVARD  
FLUSHING, NEW YORK 11367

PROJECT:

BURIED HIGH  
PRESSURE STEAM  
PIPING  
REPLACEMENT

KEY PLAN:



2. 07.10.25 ISSUED FOR PRICING ONLY

1. 04.21.23 ISSUED FOR 100% CD

MARK DATE DESCRIPTION

ISSUE:

SEAL AND SIGNATURE



CHARLES P. MEIDHOF  
ALY 105846 (N.Y. 105846)

PROJECT No: 21-003368

CAD DWG FILE - C01

DRAWN BY: - M. PATEL

CHECKED BY: - L. KERN

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SHEET TITLE

NOTES

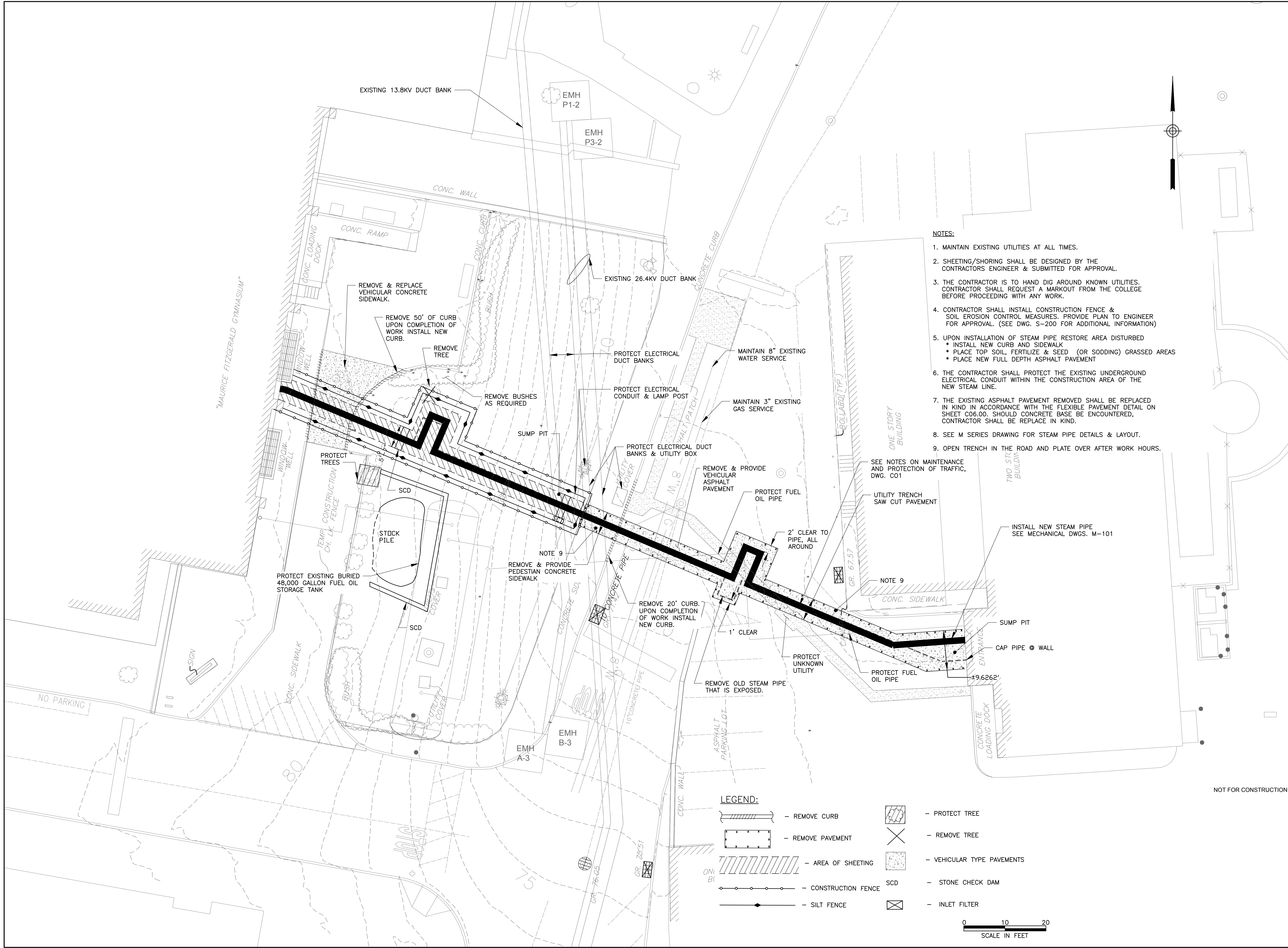
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NYC DOB NUMBER:  
Q01045182-S1

NOT FOR CONSTRUCTION



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- NOTES:**
1. MAINTAIN EXISTING UTILITIES AT ALL TIMES.
  2. SHEETING/SHORING SHALL BE DESIGNED BY THE CONTRACTORS ENGINEER & SUBMITTED FOR APPROVAL.
  3. THE CONTRACTOR IS TO HAND DIG AROUND KNOWN UTILITIES. CONTRACTOR SHALL REQUEST A MARKOUT FROM THE COLLEGE BEFORE PROCEEDING WITH ANY WORK.
  4. CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE & SOIL EROSION CONTROL MEASURES. PROVIDE PLAN TO ENGINEER FOR APPROVAL. (SEE DWG. S-200 FOR ADDITIONAL INFORMATION)
  5. UPON INSTALLATION OF STEAM PIPE RESTORE AREA DISTURBED
    - \* INSTALL NEW CURB AND SIDEWALK
    - \* PLACE TOP SOIL, FERTILIZE & SEED (OR SODDING) GRASSED AREAS
    - \* PLACE NEW FULL DEPTH ASPHALT PAVEMENT
  6. THE CONTRACTOR SHALL PROTECT THE EXISTING UNDERGROUND ELECTRICAL CONDUIT WITHIN THE CONSTRUCTION AREA OF THE NEW STEAM LINE.
  7. THE EXISTING ASPHALT PAVEMENT REMOVED SHALL BE REPLACED IN KIND IN ACCORDANCE WITH THE FLEXIBLE PAVEMENT DETAIL ON SHEET C06.00. SHOULD CONCRETE BASE BE ENCOUNTERED, CONTRACTOR SHALL BE REPLACE IN KIND.
  8. SEE M SERIES DRAWING FOR STEAM PIPE DETAILS & LAYOUT.
  9. OPEN TRENCH IN THE ROAD AND PLATE OVER AFTER WORK HOURS.

CONSULTANTS

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LOCATION: QUEENS COLLEGE  
HEATING PLANT  
64-56 KISSENA BOULEVARD  
FLUSHING, NEW YORK 11367

PROJECT:

**BURIED HIGH PRESSURE STEAM PIPING REPLACEMENT**

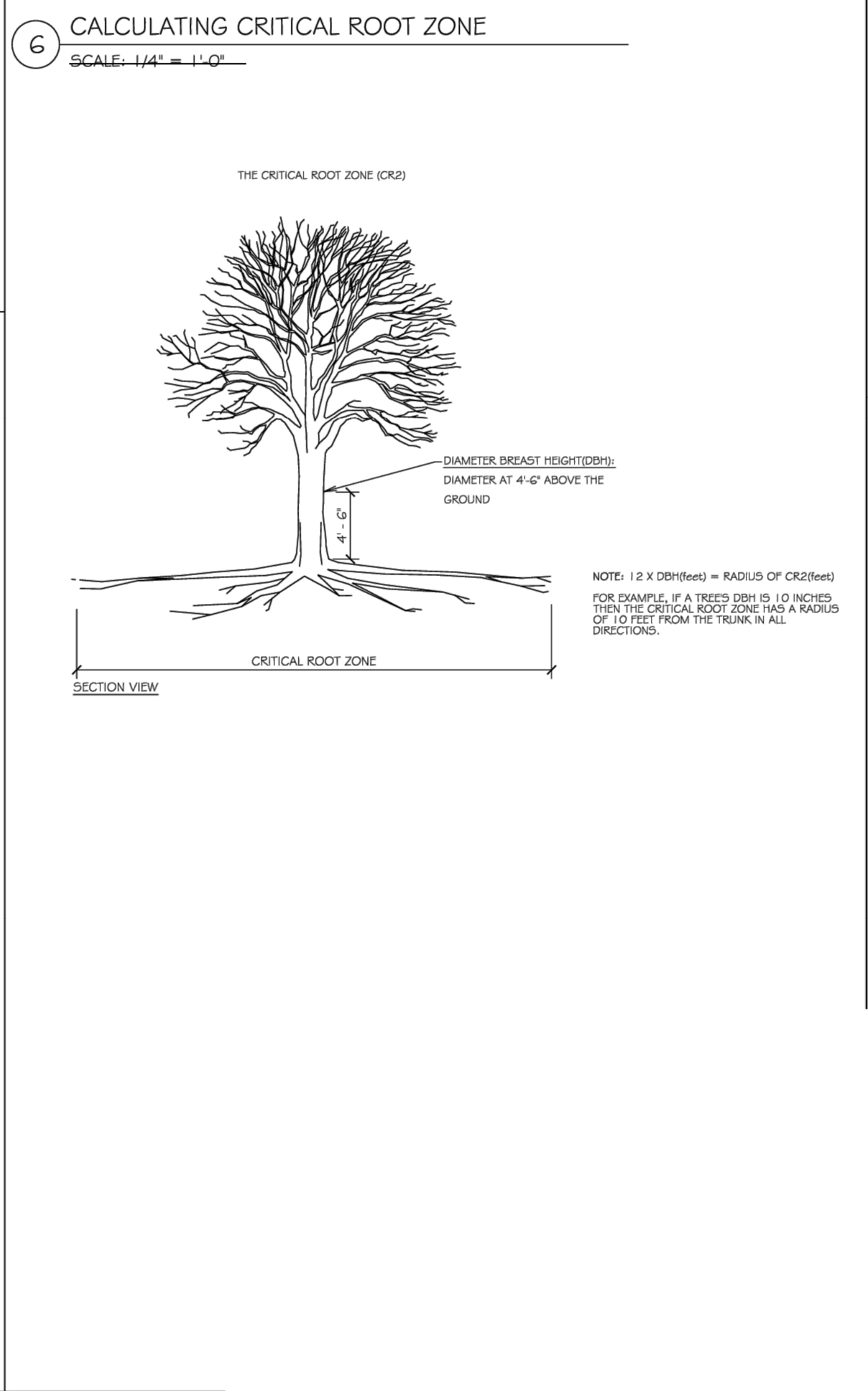
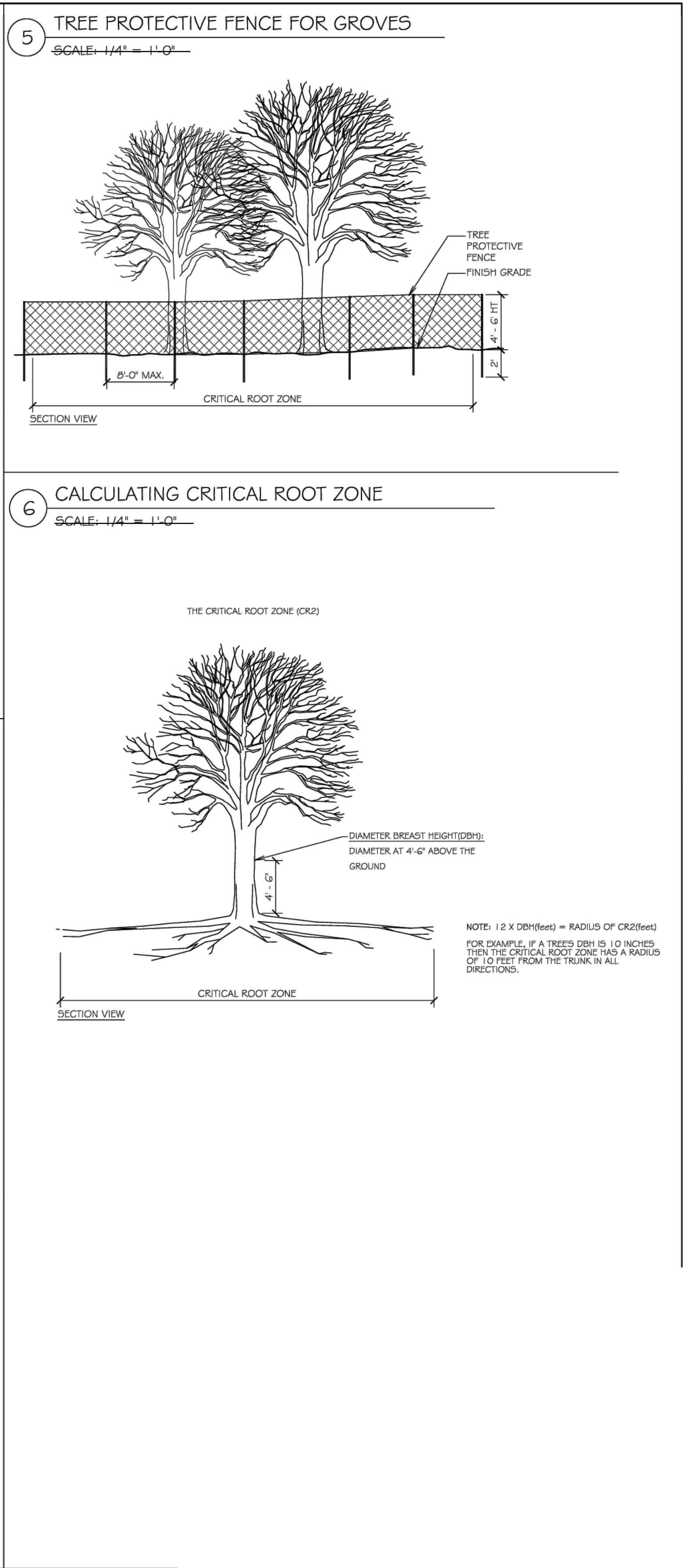
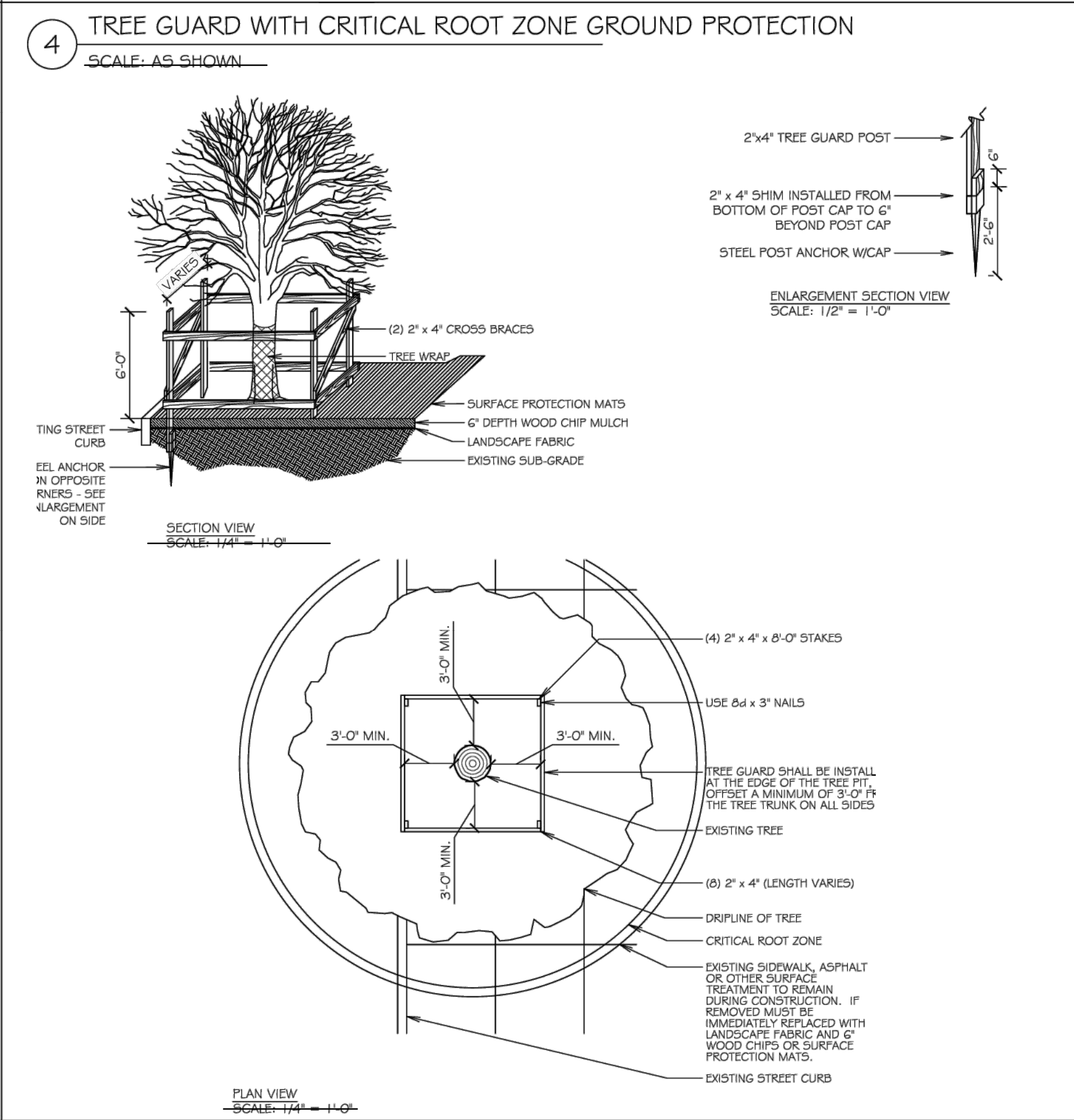
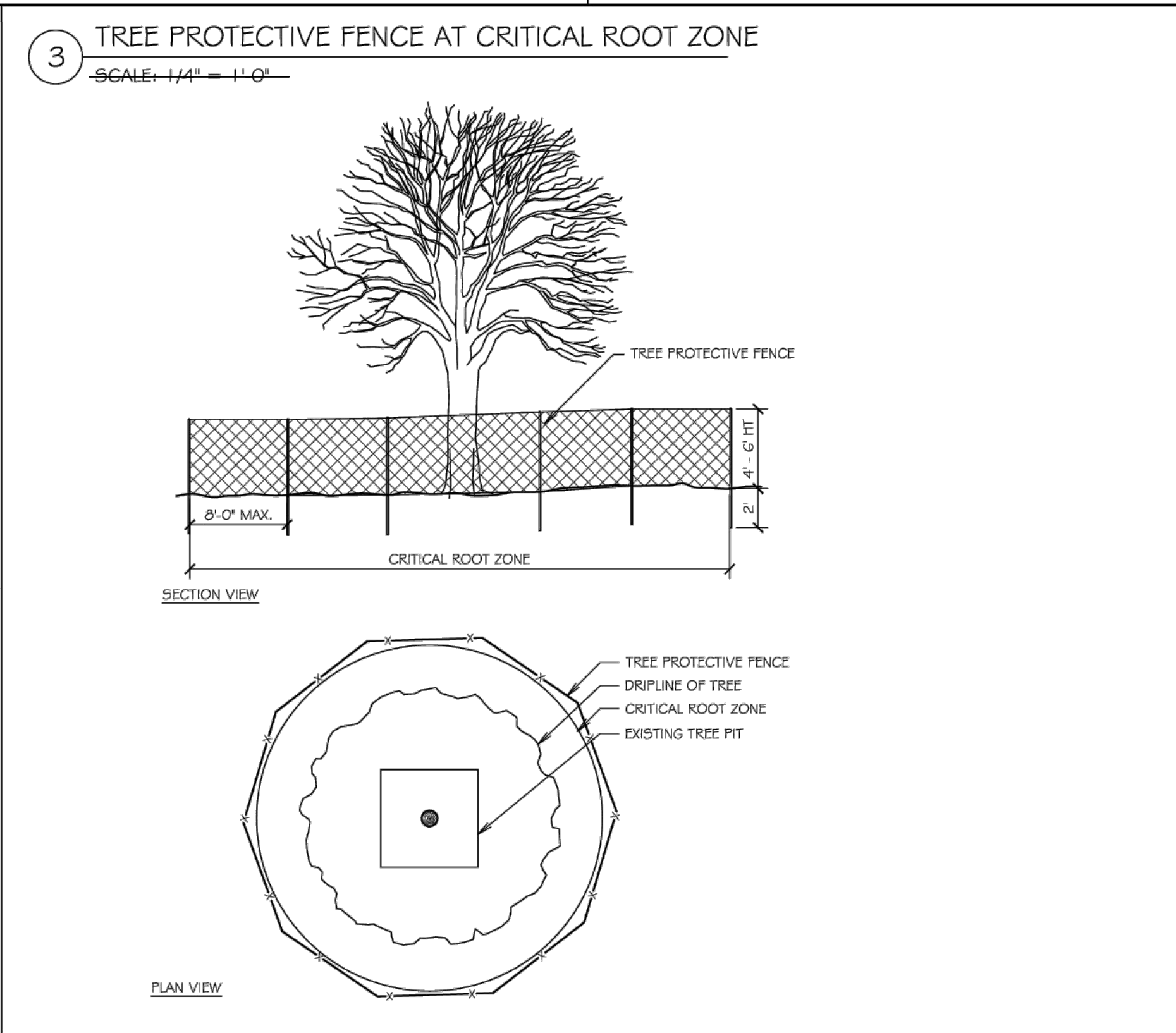
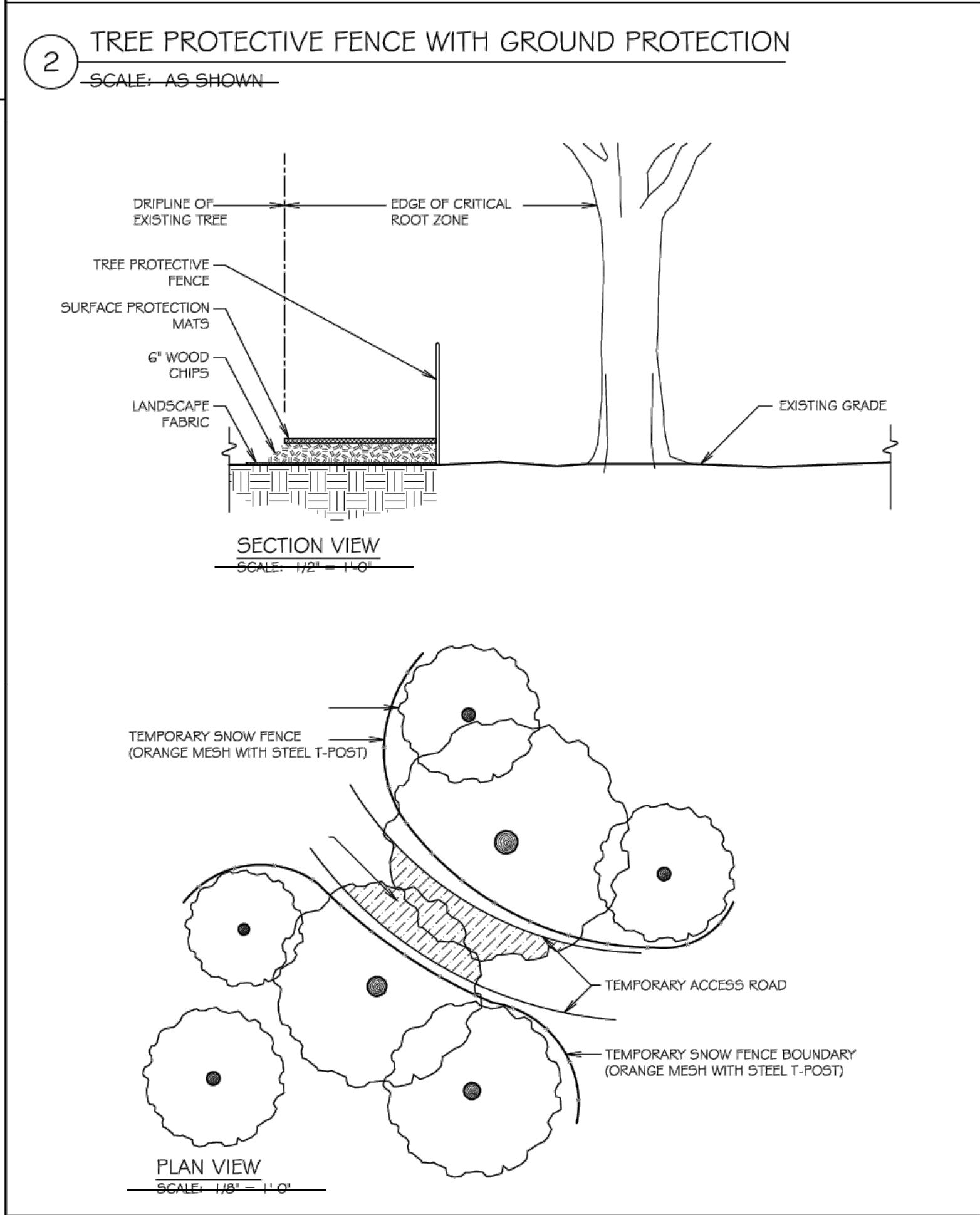
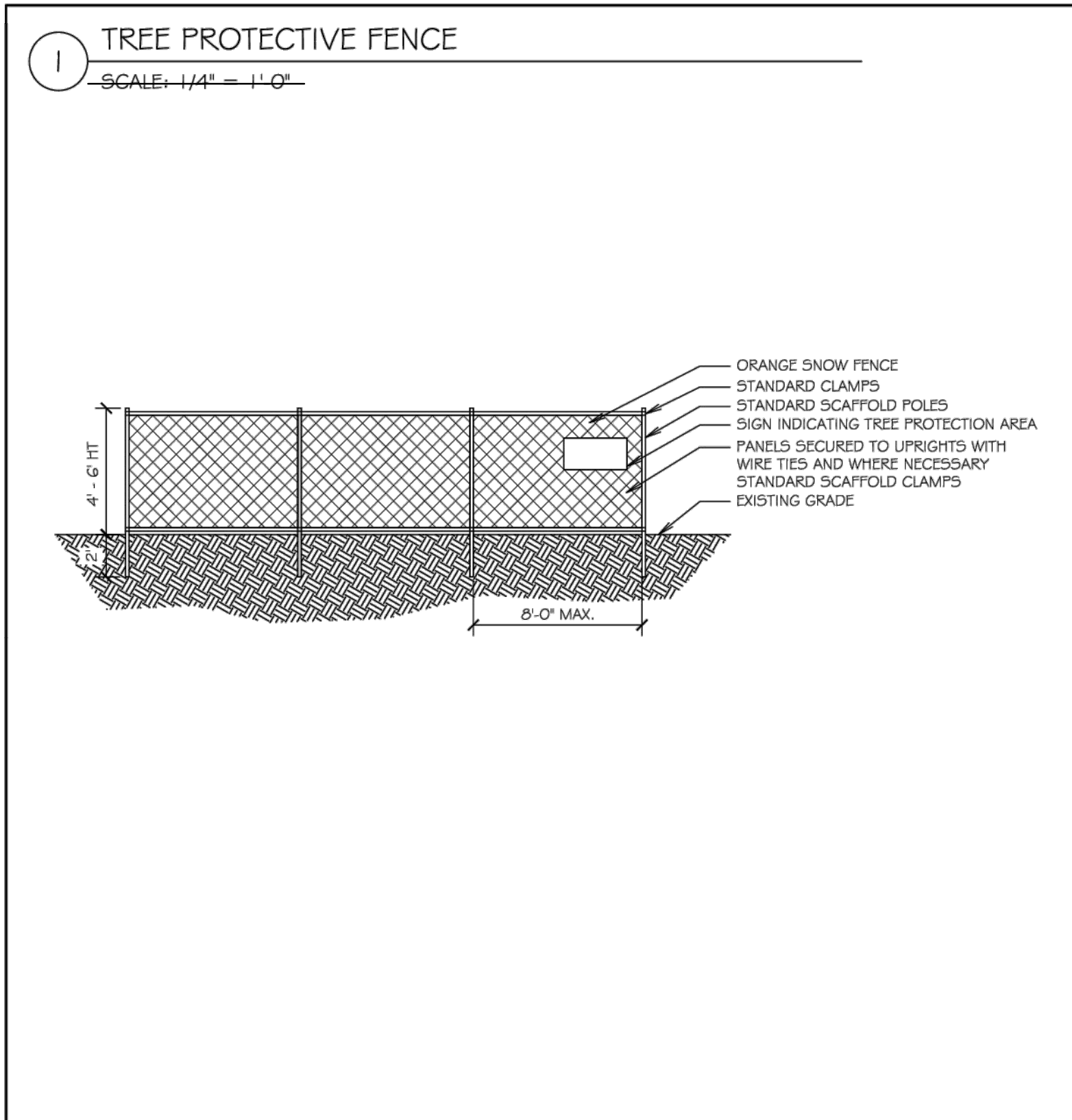
KEY PLAN:

2.	07.10.25	ISSUED FOR PRICING ONLY
1.	04.21.23	ISSUED FOR 100% CD
MARK	DATE	DESCRIPTION
ISSUE:		
SEAL AND SIGNATURE		
CHARLES P. MEIDHOF PROFESSIONAL ENGINEER NO. 13685 MECHANICAL EXPIRATION DATE 12/31/2026		
PROJECT No:	21-003368	
CAD DWG FILE	- C02	
DRAWN BY:	- M. PATEL	
CHECKED BY:	- L. KERN	
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SHEET TITLE		
<b>INSTALLATION OF NEW STEAM LINE WITH SOIL EROSION CONTROL</b>		
<b>C02.00</b>		
NYC DOB NUMBER: Q01045182-S1		

NOT FOR CONSTRUCTION

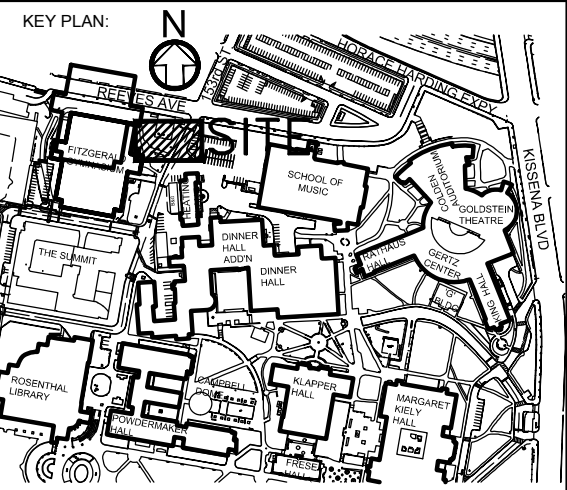


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NOT FOR CONSTRUCTION

**BURIED HIGH PRESSURE STEAM PIPING REPLACEMENT**



2.	07.10.25	ISSUED FOR PRICING ONLY
1.	04.21.23	ISSUED FOR 100% CD

MARK	DATE	DESCRIPTION
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ISSUE:

SEAL AND SIGNATURE



CHARLES P. MEIDHOF  
ALY 105846 (N.Y. STATE)

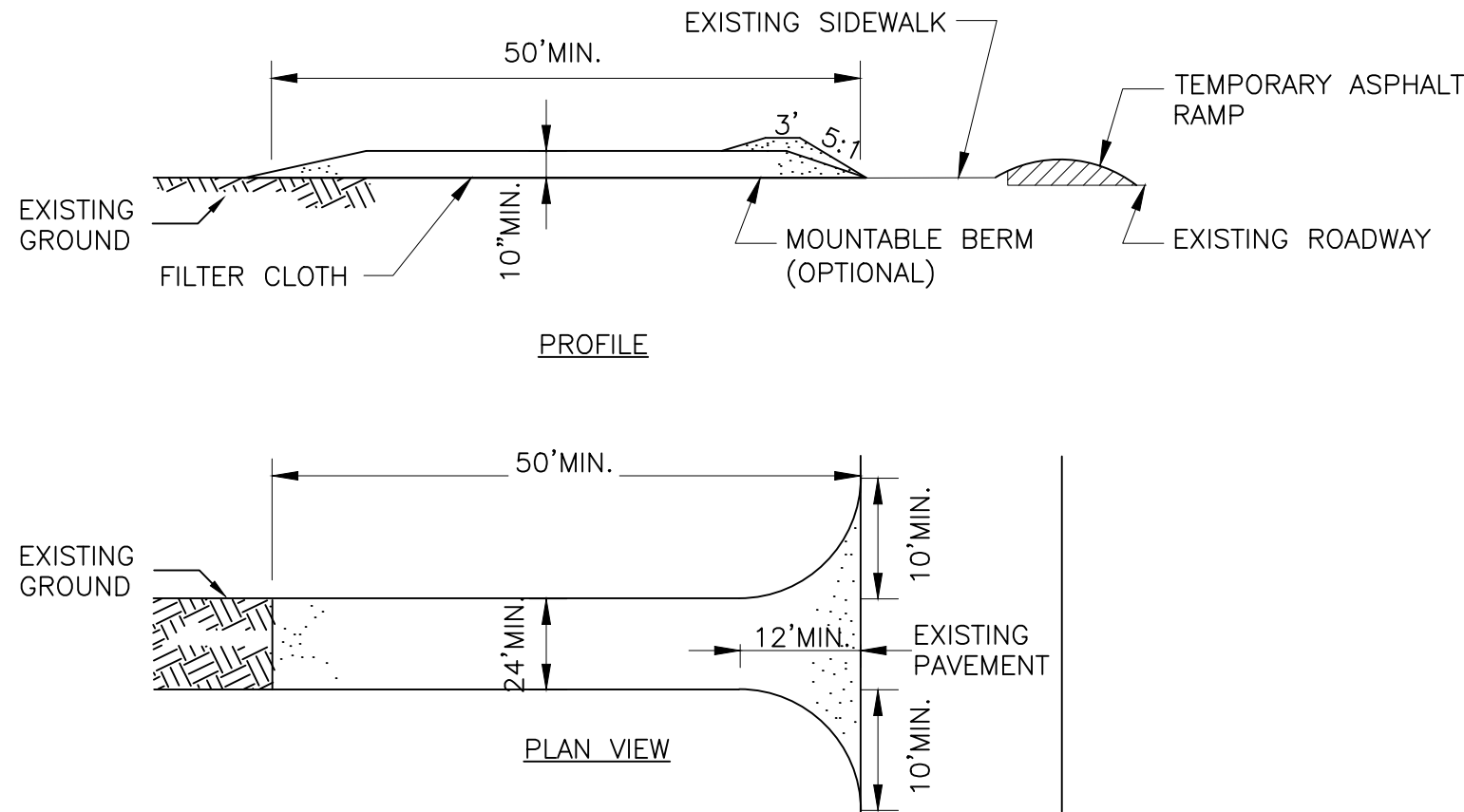
PROJECT No:	21-003368
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SHEET TITLE	

DETAILS 01

C03.00

NYC DOB NUMBER:  
Q01045182-S1

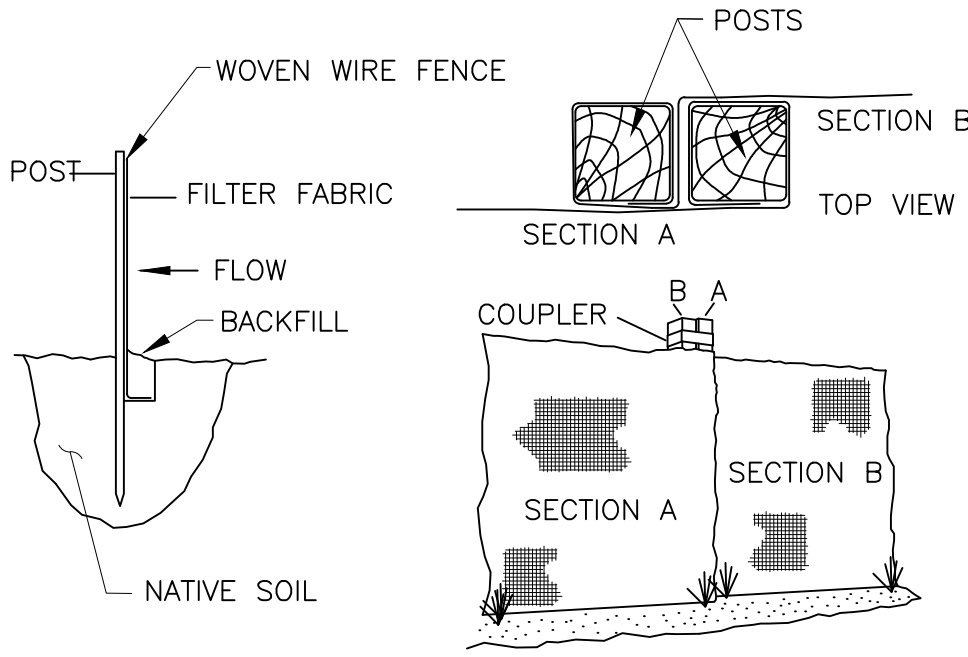




CONSTRUCTION SPECIFICATIONS

- STONE SIZE – USE 1–4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH – NOT LESS THAN 50 FEET.
- THICKNESS – NOT LESS THAN TEN (10) INCHES.
- WIDTH – TWELVE (12) FOOT MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS, TWENTY–FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT–OF–WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- LINEAR LOW DENSITY POLYETHYLENE FILM SHALL BE UTILIZED BENEATH THE GEOTEXTILE FABRIC LAYER WHERE THE STABILIZED CONSTRUCTION ENTRANCE CROSSES THE VENT TRENCH.

### ① STABILIZED CONSTRUCTION ENTRANCE



TOE-IN METHOD

JOINING SECTIONS OF FENCING

#### MATERIALS

- FENCE POST SHALL BE AT LEAST 36 INCHES LONG. WOOD POSTS SHALL BE OF HARDWOOD WITH A MINIMUM CROSS SECTION AREA OF 3 INCHES. STEEL POSTS SHALL BE STANDARD "I" OF "U" SECTIONS AND SHOULD WEIGH NO LESS THAN ONE (1) POUND PER LINEAR FOOT.
- WOVEN WIRE FENCE SHALL BE AT LEAST 14–GAUGE WITH 2" X 4" OPENINGS.
- FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE BETWEEN 40 AND 80. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILS.
- A PREFABRICATED SILT FENCE WITH A PLASTIC NETTING SEWN ON TOP OF THE FILTER FABRIC MAY BE USED. THE PLASTIC NET BACKING SHALL MEET THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.

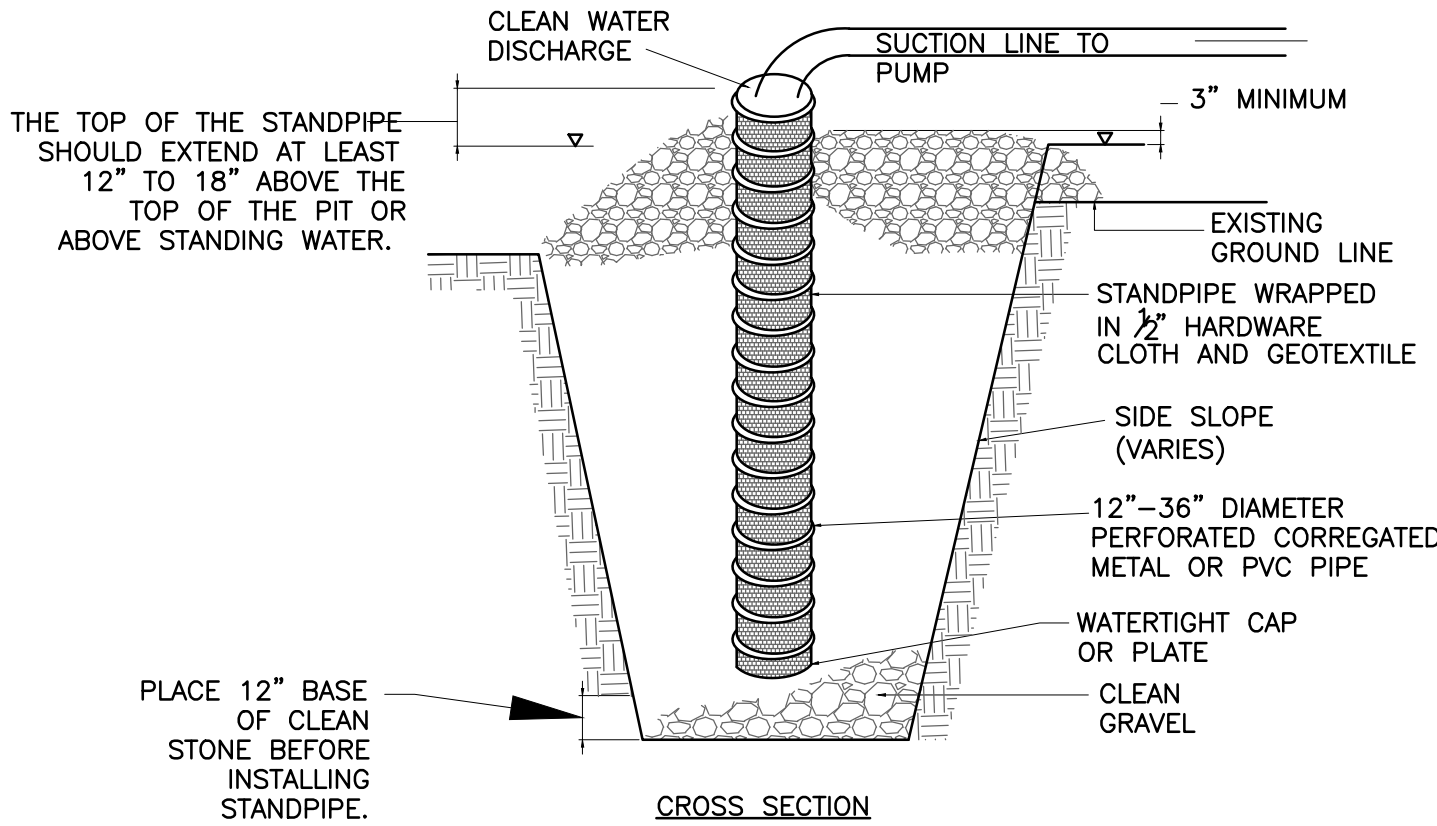
#### INSTALLATION

- EXCAVATE A 4 INCH WIDE X 6 INCH DEEP TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
- UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
- DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
- LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
- JOIN SECTIONS AS SHOWN ABOVE.

#### MAINTENANCE

- SILT FENCE SHALL BE INSPECTED AFTER EVERY RUNOFF EVENT. ANY DAMAGE MUST BE REPAIRED IMMEDIATELY.
- SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE UPSTREAM SIDE OF THE SILT FENCE WHEN IT ACCUMULATES TO THE EXTENT THAT VISIBLE BULGES DEVELOP IN THE FENCE.
- SILT FENCE SHALL BE REMOVED AFTER VEGETATIVE GROWTH OR OTHER STABILIZATION MEASURES HAVE BEEN ACHIEVED.

### ② TEMPORARY SILT FENCE



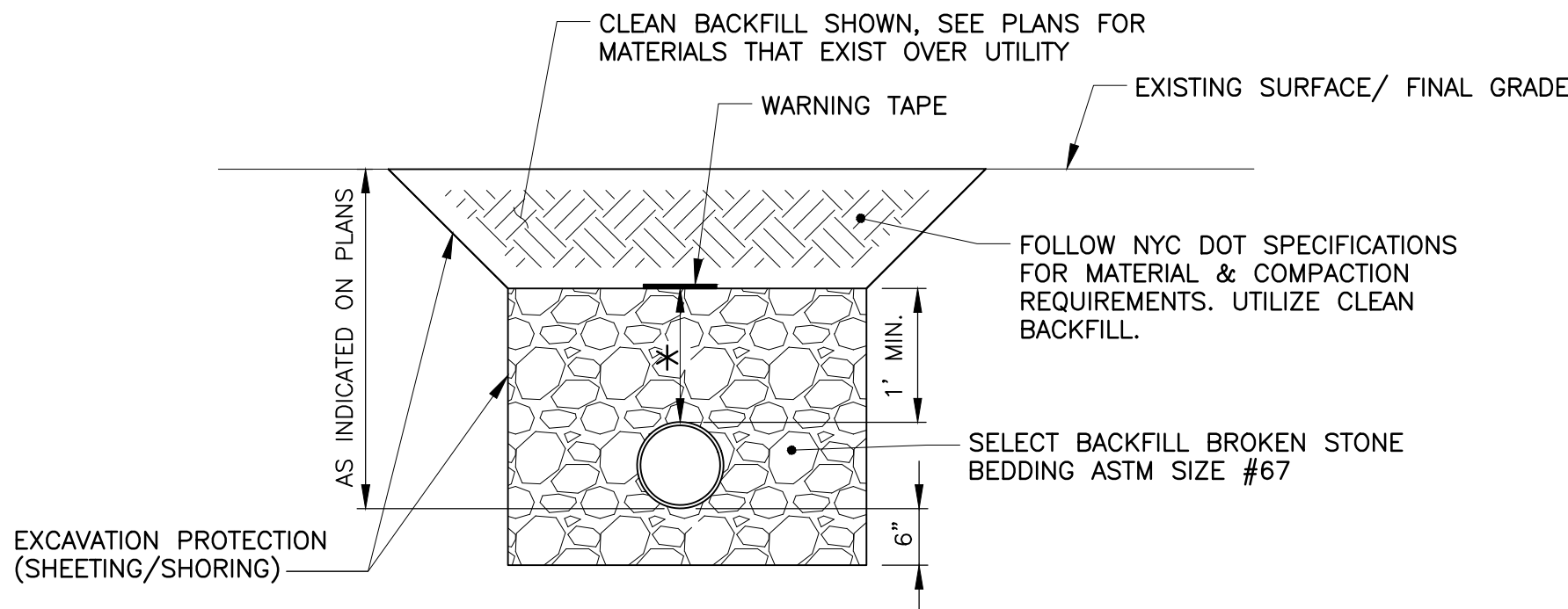
CROSS SECTION

#### CONSTRUCTION SPECIFICATIONS

- PIT DIMENSIONS ARE VARIABLE, WITH THE MINIMUM DIAMETER BEING 2 TIMES THE STANDPIPE DIAMETER.
- THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12" TO 24" DIAMETER CORRUGATED OR PVC PIPE. THEN WRAPPING WITH 1/2" HARDWARE CLOTH AND GEOTEXTILE FABRIC. THE PERFORATIONS SHALL BE 1/2" X 6" SLITS OR 1" DIAMETER HOLES.
- A BASE OF FILTER MATERIAL CONSISTING OF CLEAN GRAVEL OR ASTM C 33 STONE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12" AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD THEN BE BACKFILLED WITH THE SAME FILTER MATERIAL.
- THE STANDPIPE SHOULD EXTEND 12" TO 18" ABOVE THE LIP OF PIT OR THE RISER CREST ELEVATION (BASIN DEWATERING ONLY) AND THE FILTER MATERIAL SHOULD EXTEND 3" MINIMUM ABOVE THE ANTICIPATED STANDING WATER ELEVATION.

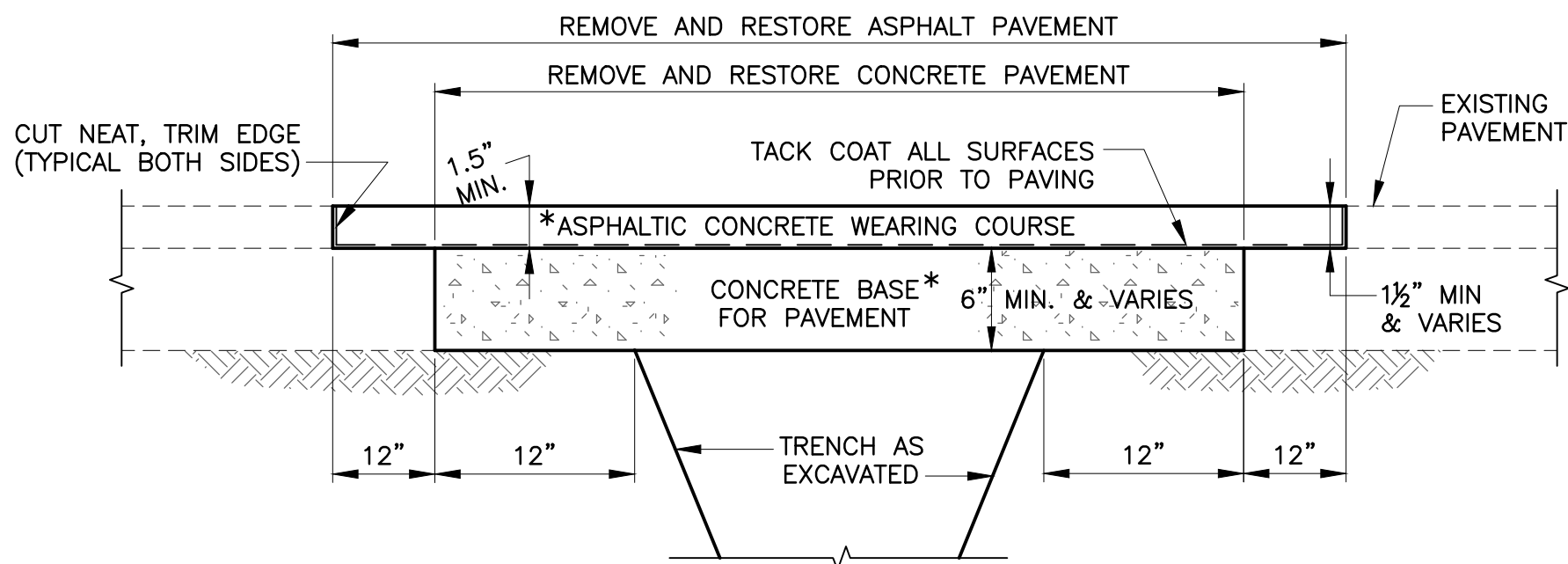
### ⑥ SUMP PIT DEWATERING DETAIL

N.T.S.



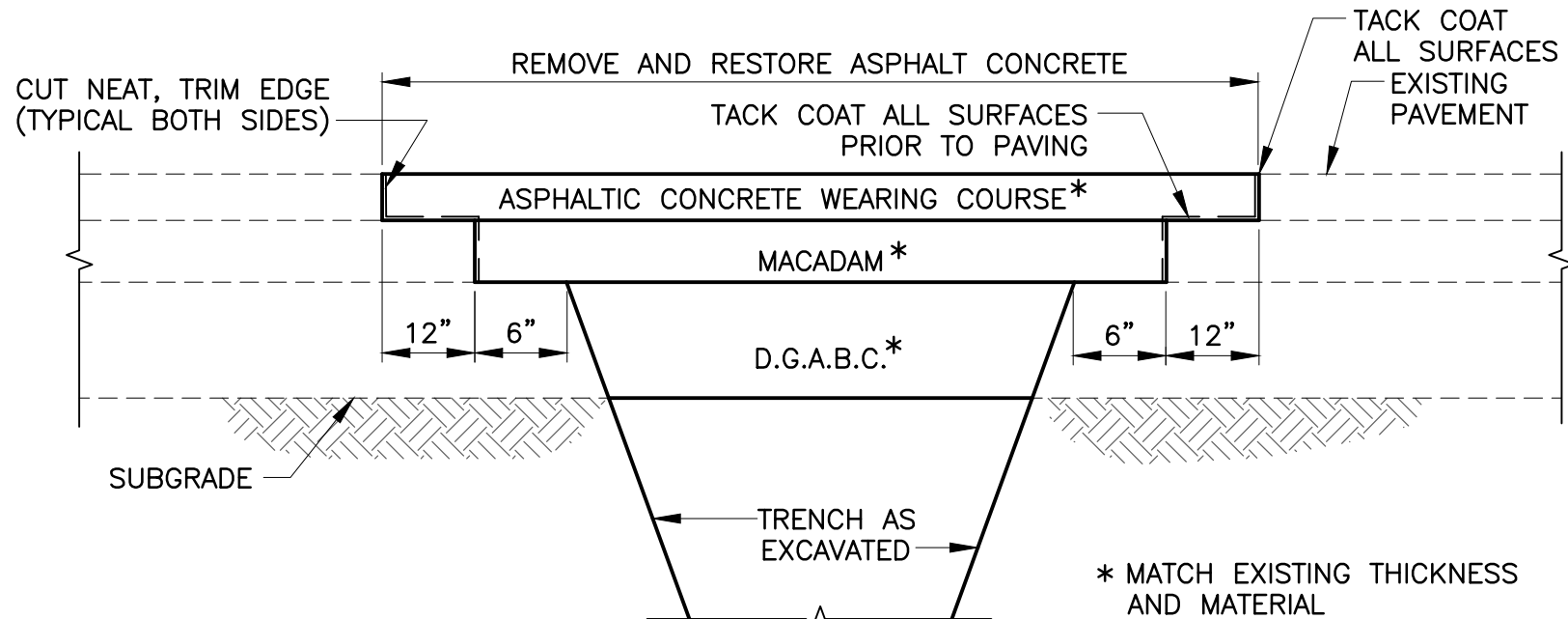
### ③ UTILITY TRENCH DETAIL (IF & WHERE ENCOUNTERED)

\* WARNING TAPE PLACED 2' ABOVE UTILITY OR AS INDICATED BY THE ENGINEER



### ④ RIGID PAVEMENT RESTORATION

(IF & WHERE ENCOUNTERED)



### ⑤ FLEXIBLE PAVEMENT RESTORATION

(N.T.S.)

(SEE C07 DETAILS 6 & 7 FOR ADDITIONAL INFORMATION)

#### CAST IN PLACE AND PRECAST CONCRETE NOTES:

- ALL CONCRETE SHALL CONFORM TO LATEST EDITION OF THE NYC DOT STANDARD SPECIFICATIONS.
- EXPANSION JOINTS SHALL BE AT FOOT INTERVALS AND FILLED WITH A HALF INCH THICK, NON–EXTRUDABLE, FIBROUS, BITUMASTIC MATERIAL.
- ALL CONCRETE WORK SHALL HAVE A WOOD FLOAT AND TRANSVERSE BROOM FINISH, BROOMING SHALL BE DONE BEFORE INITIAL SET USING A STEEL OR BARN BROOM.
- SUBBASE SHALL BE FIRM AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO POURING.
- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE NYC DOT SPECIFICATIONS.
- FORMWORK SHALL BE APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO POURING CONCRETE.
- PROVIDE 1/2" THICK, NON–EXTRUDABLE, FIBROUS BITUMASTIC MATERIAL WHERE CURB MEETS SIDEWALK.
- ALL PIPE OPENINGS SHALL BE GROUTED WITH NON SHRINK SIKA EPOXY COAT.
- PRECAST CONCRETE UNITS SHALL CONFORM TO THE FOLLOWING:
  - 4000 PSI CONCRETE, CLASS 40 CONCRETE.
  - MAX. W/C RATIO OF 0.42.
  - PROVIDE TEXT REPORTS & CERTIFICATIONS AS REQUIRED BY SPECIFICATIONS.
  - CAST IN PLACE: 4000 PSI CONCRETE, CLASS 40
  - MAX W/C RATION OF 0.45(CURBS), 0.40 (PAVEMENTS)
  - SLUMP BEFORE ADMIXTURES 2" MIN. TO 4" MAX.
  - ALL CONCRETE: AIR CONTEXT SHALL BE 4 1/2% MIN. TO 7 1/2% MAX. FOR #57 OR 67 STONE.
  - IF #8 STONE IS USED: 5 1/2% MIN. TO 8 1/2% MAX.
  - STEEL BARS SHALL BE GRADE 60 OR WELDED WIRE FABRIC PER ASTM A185.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEO TEXTILE MATERIAL
- BEDDING: 3/4" CLEAN WASHED STONE.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I OR II IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- ADJUST RIMS ELEVATIONS FOR FINAL PAVEMENT ELEVATIONS WHERE NECESSARY.

CONSULTANTS



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**KSE**

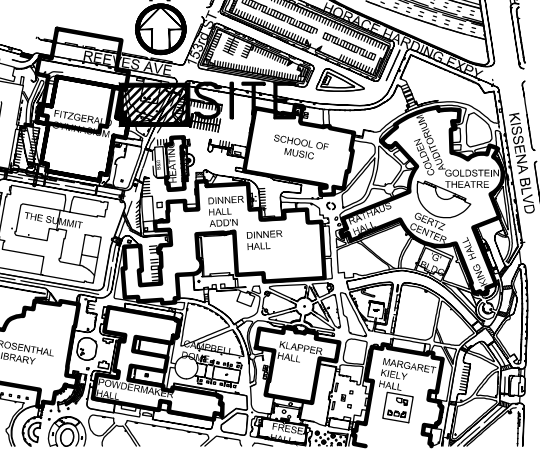
**KS ENGINEERS, P.C.**  
2 Riverfront Plaza, 3rd Floor Newark, N.J. 07102  
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LOCATION: QUEENS COLLEGE  
HEATING PLANT  
64-56 KISSENA BOULEVARD  
FLUSHING, NEW YORK 11367

PROJECT:

## BURIED HIGH PRESSURE STEAM PIPING REPLACEMENT

KEY PLAN:



2. 07.10.25 ISSUED FOR PRICING ONLY

1. 04.21.23 ISSUED FOR 100% CD

MARK DATE DESCRIPTION

ISSUE:

SEAL AND SIGNATURE



CHARLES P. MEIDHOF

ALY 105864 (N.Y. 105864)

PROJECT No: 21-003368

CAD DWG FILE - C04

DRAWN BY: - M. PATEL

CHECKED BY: - L. KERN

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SHEET TITLE

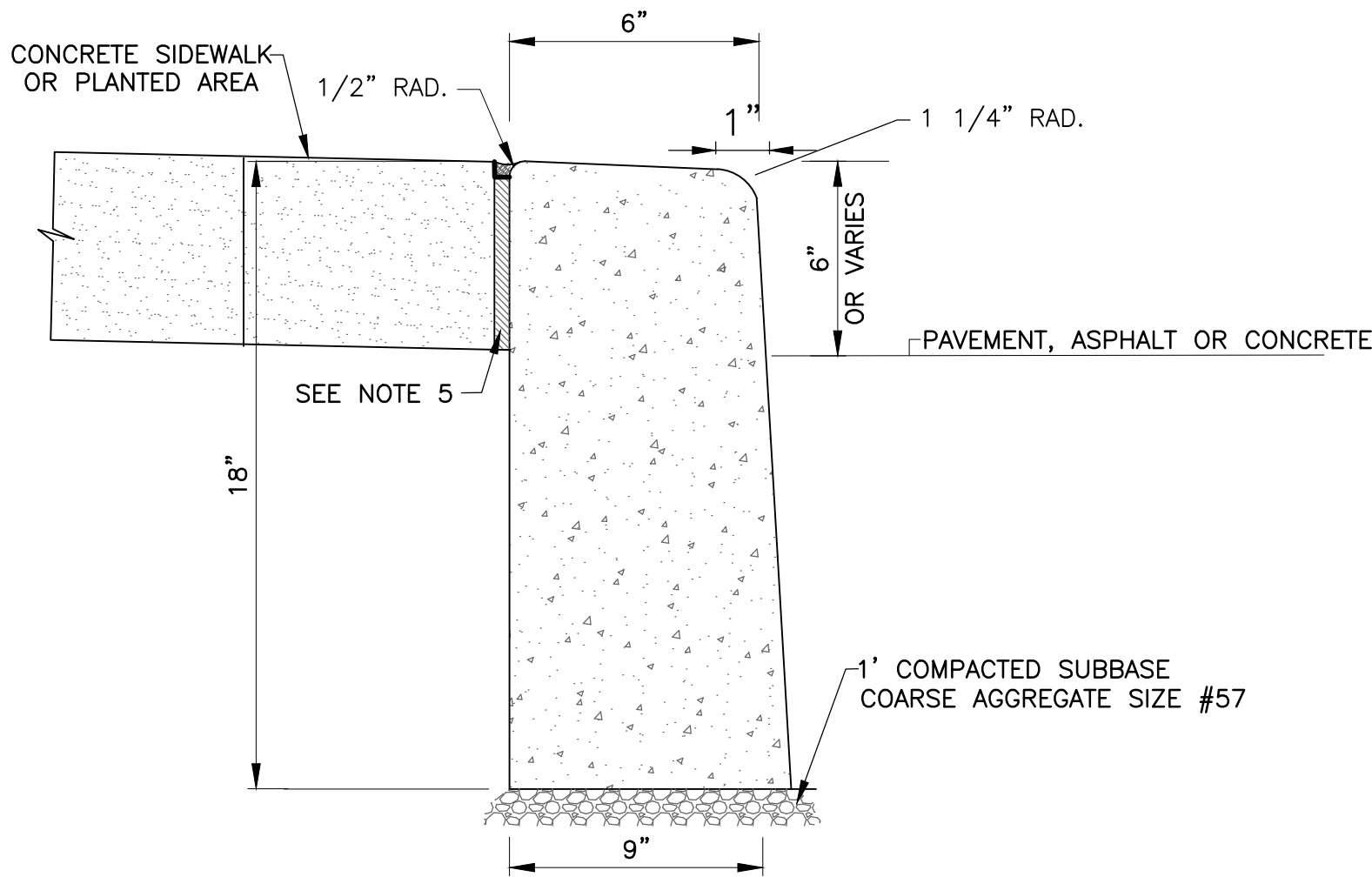
DETAILS 02

C04.00

NOT FOR CONSTRUCTION

NYC DOB NUMBER:  
Q01045182-S1

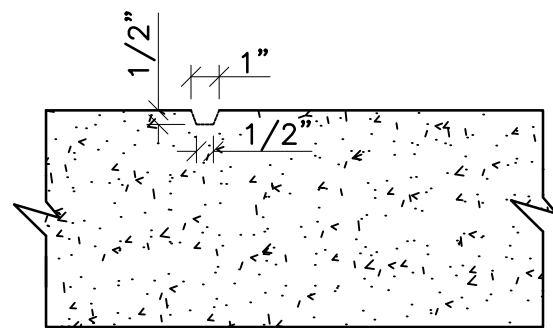




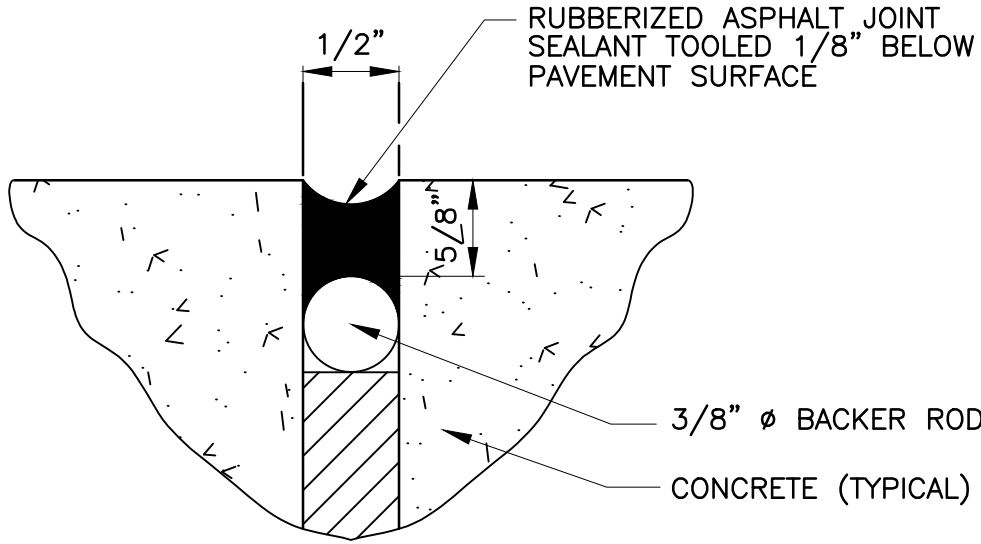
① CONCRETE VERTICAL CURB 6"X8"X18"  
(N.T.S.)

NOTES:

- ALL CONCRETE SHALL CONFORM TO NYCDOT SPECIFICATION.
- EXPANSION JOINTS SHALL BE AT 10-FOOT INTERVALS AND FILLED WITH A 1/2" THICK, NON-EXTRUDABLE, FIBROUS, BITUMASTIC MATERIAL.
- ALL CONCRETE WORK SHALL HAVE A WOOD FLOAT AND TRANSVERSE BROOM FINISH. BROOMING SHALL BE DONE BEFORE INITIAL SET USING A STEEL OR BARN BROOM.
- SUBBASE SHALL BE FIRM AND APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO POURING.
- PROVIDE 1/2" THICK, NON-EXTRUDABLE, FIBROUS, BITUMASTIC MATERIAL WHERE CURB MEETS SIDEWALK.

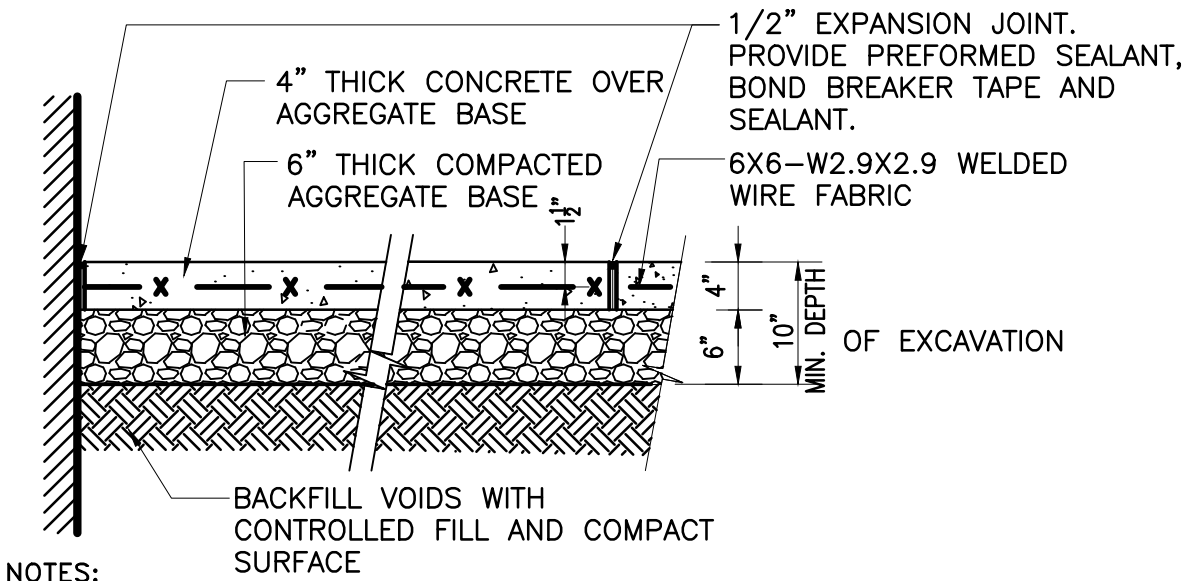


② TYPICAL DETAIL OF CONSTRUCTION JOINT  
(N.T.S.)  
(JOINT FOR SIDEWALKS ARE EVERY 5' OR AS ENCOUNTERED IN FIELD)



③ EXPANSION JOINT DETAIL  
(FOR CONCRETE SIDEWALK)  
(N.T.S.)

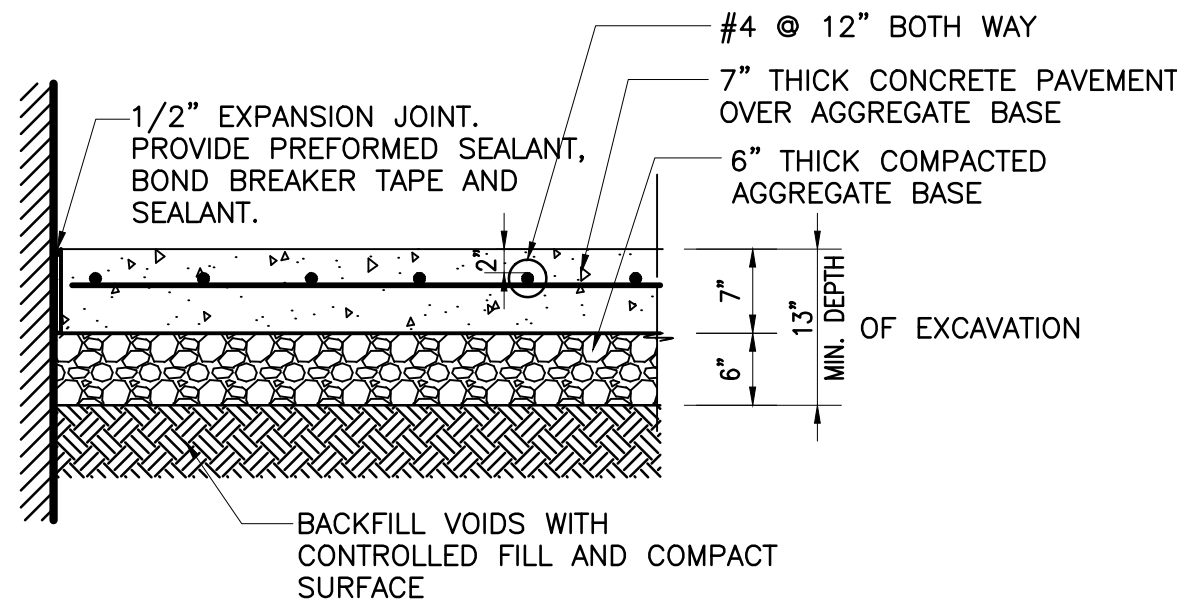
- PROVIDE 0.5 INCH EXPANSION JOINTS EVERY 20 FEET MAXIMUM, BUT NOT LESS THAN 5 FT. FROM A CORNER.



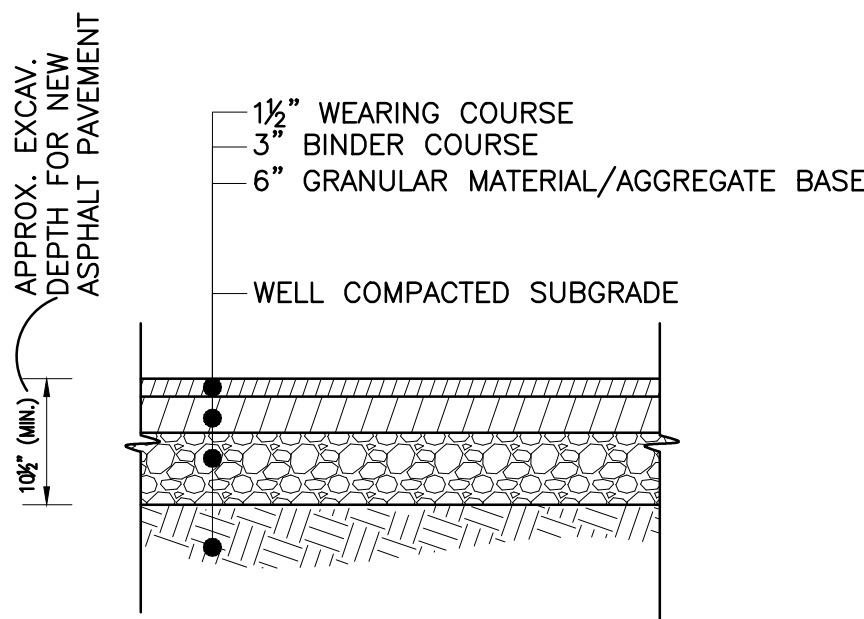
NOTES:

- TOP OF NEW PAVEMENT SHALL MATCH TO TOP OF EXISTING PAVEMENT AND PITCH TO DRAIN.
- PROVIDE NEW 1/2" WIDE EXPANSION JOINT AT THE JUNCTION OF NEW & EXISTING WORK AND AT APPROXIMATELY 20' GRID. PROVIDE SCORE LINE AT APPROXIMATELY 5' GRID.
- PROVIDE PITCH TOWARD DRAIN IN THE SUB-BASE.

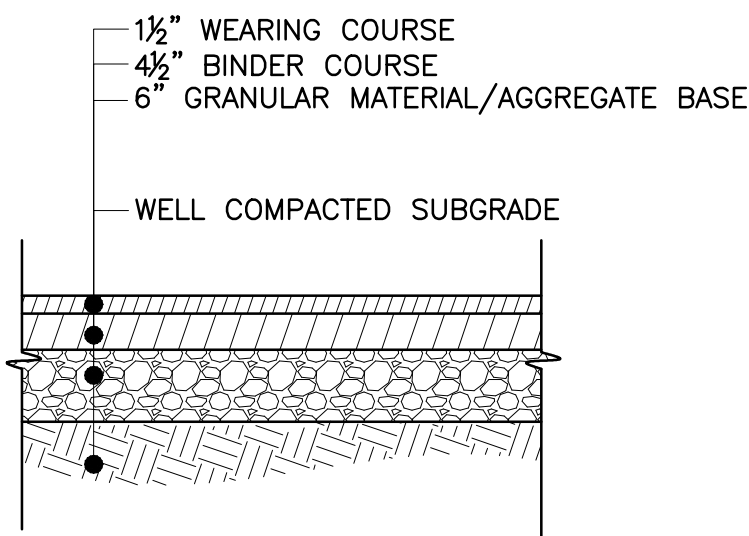
④ CONCRETE PAVEMENT DETAIL  
(NON-VEHICULAR AREA)



⑤ CONCRETE PAVEMENT DETAIL  
(VEHICULAR AREA)

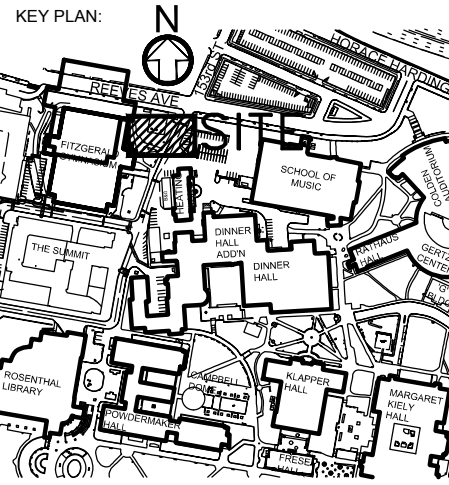


⑥ ASPHALT PAVEMENT - PEDESTRIAN



⑦ ASPHALT PAVEMENT - VEHICULAR

BURIED HIGH PRESSURE STEAM PIPING REPLACEMENT



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CHARLES P. MEIDHOF

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SHEET TITLE

DETAILS 03

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